

**Appendix A**  
**Specification/Claim Amendments with Notations To Indicate Changes Made**  
**Serial No.: Unknown (Parent Serial No. 09/407,818)**  
**Filed: Herewith (Parent: September 28, 1999)**  
**For: PRIMERS FOR USE IN DETECTING BETA-LACTAMASES**

---

**In the Specification**

The following new section has been inserted at page 1, immediately following the "Title" heading:

**--Statement of Related Applications**

This application is a divisional of U.S. Patent Application Serial No. 09/407,818, filed September 28, 1999, entitled "Primers for Use in Detecting Beta-Lactamases," which claims the benefit of U.S. Patent Application Serial No. 60/102,181, filed September 28, 1998, entitled "Primers for Use in Detecting Beta-Lactamases," and U.S. Patent Application Serial No. 60/121,765, filed February 26, 1999, also entitled "Primers for Use in Detecting Beta-Lactamases." All three applications are incorporated herein by reference.--

**In the Claims**

1. **(Once Amended)** A primer selected from the group of:

[5' - TGC TTA ATC AGT GAG GCA CC - 3' (SEQ ID NO:1);  
5' - AGA TCA GTT GGG TGC ACG AG - 3' (SEQ ID NO:2);  
5' - CTT GGT CTG ACA GTT ACC - 3' (SEQ ID NO:3);  
5' - TGT CGC CCT TAT TCC - 3' (SEQ ID NO:4); [and]  
5' - TCG GGG AAA TGT GCG - 3' (SEQ ID NO:5); and complements thereof.

2. **(Once Amended)** A primer selected from the group of:

5' - ATC GTC CAC CAT CCA CTG CA - 3' (SEQ ID NO:6);  
5' - GGG AAA CGG AAC TGA ATG AG - 3' (SEQ ID NO:7);  
5' - TAG TGG ATC TTT CGC TCC AG - 3' (SEQ ID NO:8);  
5' - GCT CTG CTT TGT TAT TC - 3' (SEQ ID NO:9);  
5' - CAC TCA AGG ATG TAT TGT G - 3' (SEQ ID NO:10); and complements thereof [;

and

**Appendix A***Applicant(s): HANSON et al.**Serial No.: Unknown (Parent Serial No.: 09/407,818)**Filed: Herewith (Parent: September 28, 1999)**Title: PRIMERS FOR USE IN DETECTING BETA-LACTAMASES*

---

5' - TTA GCG TTG CCA GTG CTC G - 3' (SEQ ID NO:11)].

4. **(Once Amended)** A primer selected from the group of:

5' - CTG GCA ACC ACA ATG GAC TCC G - 3' (SEQ ID NO:18); [and]

5' - GCC AGT TCA GCA TCT CCC AGC C - 3' (SEQ ID NO:19); and complements thereof.

5. **(Once Amended)** A primer selected from the group of:

5' - CGT GAC CAA CAA CGC CCA GC - 3' (SEQ ID NO:20); [and]

5' - CCA GAT AGC GAA TCA GAT CGC - 3' (SEQ ID NO:21); and complements thereof.

7. **(Once Amended)** A primer selected from the group of:

5' - GGC ATT GGG ATA GTT GCG GTT G - 3' (SEQ ID NO:24); [and]

5' - TTA CTA CAA GGT CGG CGA CAT GAC C - 3' (SEQ ID NO:25); and complements thereof.

8. **(Once Amended)** A primer selected from the group of:

5' - GGA TCA CAC TAT TAC ATC TCG C - 3' (SEQ ID NO:26); [and]

5' - CGT ATG GTT GAG TTT GAG TGG C - 3' (SEQ ID NO:27); and complements thereof.

9. **(Once Amended)** A primer selected from the group of:

5' - GCG ACC TGG TTA ACT ACA ATC CC - 3' (SEQ ID NO:28); [and]

5' - CGG TAG TAT TGC CC TTA AGC C - 3' (SEQ ID NO:29); and complements thereof.

10. **(Once Amended)** A primer selected from the group of:

**Appendix A***Applicant(s): HANSON et al.**Serial No.: Unknown (Parent Serial No.: 09/407,818)**Filed: Herewith (Parent: September 28, 1999)**Title: PRIMERS FOR USE IN DETECTING BETA-LACTAMASES*

---

5' - CGG AAA AGC ACG TCG ATG GG - 3' (SEQ ID NO:30); [and]

5' - GCG ATA TCG TTG GTG GTG CC - 3' (SEQ ID NO:31); and complements

thereof.

11. **(Once Amended)** A primer selected from the group of:

5' - CTC GAT GAT GCG TGC TTC GC - 3' (SEQ ID NO:32); [and]

5' - GCG ACT GTG ATG TAT AAA CG - 3' (SEQ ID NO:33); and complements

thereof.

19. **(Once Amended)** The method of claim 18 wherein the primers are selected from the group of:

[5' - TGC TTA ATC AGT GAG GCA CC - 3' (SEQ ID NO:1);

5' - AGA TCA GTT GGG TGC ACG AG - 3' (SEQ ID NO:2);]

5' - CTT GGT CTG ACA GTT ACC - 3' (SEQ ID NO:3);

5' - TGT CGC CCT TAT TCC - 3' (SEQ ID NO:4); [and]

5' - TCG GGG AAA TGT GCG - 3' (SEQ ID NO:5); and complements thereof.

21. **(Once Amended)** The method of claim 20 wherein the primers are selected from the group of:

5' - ATC GTC CAC CAT CCA CTG CA - 3' (SEQ ID NO:6);

5' - GGG AAA CGG AAC TGA ATG AG - 3' (SEQ ID NO:7);

5' - TAG TGG ATC TTT CGC TCC AG - 3' (SEQ ID NO:8);

5' - GCT CTG CTT TGT TAT TC - 3' (SEQ ID NO:9);

5' - CAC TCA AGG ATG TAT TGT G - 3' (SEQ ID NO:10) [; and

5' - TTA GCG TTG CCA GTG CTC G - 3' (SEQ ID NO:11)]; and complements thereof.

25. **(Once Amended)** The method of claim 24 wherein the primers are selected from the group of:

**Appendix A***Applicant(s): HANSON et al.**Serial No.: Unknown (Parent Serial No.: 09/407,818)**Filed: Herewith (Parent: September 28, 1999)**Title: PRIMERS FOR USE IN DETECTING BETA-LACTAMASES*

---

5' - CTG GCA ACC ACA ATG GAC TCC G - 3' (SEQ ID NO:18); [and]

5' - GCC AGT TCA GCA TCT CCC AGC C - 3' (SEQ ID NO:19); and complements thereof.

27. **(Once Amended)** The method of claim 26 wherein the primers are selected from the group of:

5' - CGT GAC CAA CAA CGC CCA GC - 3' (SEQ ID NO:20); [and]

5' - CCA GAT AGC GAA TCA GAT CGC - 3' (SEQ ID NO:21); and complements thereof.

31. **(Once Amended)** The method of claim 30 wherein the primers are selected from the group of:

5' - GGC ATT GGG ATA GTT GCG GTT G - 3' (SEQ ID NO:24); [and]

5' - TTA CTA CAA GGT CGG CGA CAT GAC C - 3' (SEQ ID NO:25); and complements thereof.

33. **(Once Amended)** The method of claim 32 wherein the primers are selected from the group of:

5' - GGA TCA CAC TAT TAC ATC TCG C - 3' (SEQ ID NO:26); [and]

5' - CGT ATG GTT GAG TTT GAG TGG C - 3' (SEQ ID NO:27); and complements thereof.

35. **(Once Amended)** The method of claim 34 wherein the primers are selected from the group of:

5' - GCG ACC TGG TTA ACT ACA ATC CC - 3' (SEQ ID NO:28); [and]

5' - CGG TAG TAT TGC CC TTA AGC C - 3' (SEQ ID NO:29); and complements thereof.

**Appendix A***Applicant(s): HANSON et al.**Serial No.: Unknown (Parent Serial No.: 09/407,818)**Filed: Herewith (Parent: September 28, 1999)**Title: PRIMERS FOR USE IN DETECTING BETA-LACTAMASES*

---

36. **(Once Amended)** The method of claim 34 wherein the primers are selected from the group of:

5' - CGG AAA AGC ACG TCG ATG GG - 3' (SEQ ID NO:30); [and]

5' - GCG ATA TCG TTG GTG GTG CC - 3' (SEQ ID NO:31); and complements

thereof.

38. **(Once Amended)** The method of claim 37 wherein the primers are selected from the group of:

5' - CTC GAT GAT GCG TGC TTC GC - 3' (SEQ ID NO:32); [and]

5' - GCG ACT GTG ATG TAT AAA CG - 3' (SEQ ID NO:33); and complements

thereof.

49. **(Once Amended)** A diagnostic kit for detecting a TEM family beta-lactamase which comprises packaging, containing, separately packaged:

(a) at least one primer pair capable of hybridizing to beta-lactamase nucleic acid of interest wherein at least one of the primers is selected from the primers of claim 1;

(b) a positive and negative control; and

(c) a protocol for identification of the beta-lactamase nucleic acid of interest.

50. **(Once Amended)** The diagnostic kit of claim 49 wherein the primers are selected from the group of:

[5' - TGC TTA ATC AGT GAG GCA CC - 3' (SEQ ID NO:1);

5' - AGA TCA GTT GGG TGC ACG AG - 3' (SEQ ID NO:2);]

5' - CTT GGT CTG ACA GTT ACC - 3' (SEQ ID NO:3);

5' - TGT CGC CCT TAT TCC - 3' (SEQ ID NO:4); [and]

5' - TCG GGG AAA TGT GCG - 3' (SEQ ID NO:5); and complements thereof.